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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,208	07/15/2003	Jose Agerico R. Moncada	3409-140	1085

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EXAMINER

POKER, JENNIFER A

ART UNIT	PAPER NUMBER
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2832

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/621,208	Applicant(s) MONCADA ET AL.	
	Examiner Jennifer A. Poker	Art Unit 2832	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5-9,11 and 12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-9,11 and 12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 July 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 20, 2005 has been entered. Claims 1-3, 5-9, 11, and 12 are pending and are being examined.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 6,075,430 to Lindqvist in view of U.S. Patent Number 6,392,523 to Tsunemi.

Regarding claim 1, Lindqvist discloses an inductive component comprising:

- (1) magnetic core (1) having an elongated cylinder (2);
- (2) two flanges (3, 4), one located at each outer end (8, 9) of the elongated cylinder (2) defining a planar surface;
- (3) a coil (6) wound around the center part of the cylinder (2) between the flanges (3, 4).

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It can be seen in figures 1b-1d and figure 2b that the winding defines a planar surface, which is coplanar with each of the flanges located at the ends of the cylinder.

Regarding claim 7, Lindqvist discloses an inductive device, which enables flexible and inexpensive transformers and inductors to be constructed with the aid of available winding techniques (column 1, lines 39-40); the inductive device comprising:

- (1) two (first and second) magnetic cores both having an elongated central cylinder;
- (2) two flanges on each core; one flange located at each other end of the cylinder; the flanges defining a planar surface;
- (3) a coil wound around the center part of each cylinder, between the flanges;
- (4) a yoke (10) securing the cores together such that the planar surface flanges of one core is coplanar with the planar surface flanges of the second core (figures 2a-2c).

Lindqvist discloses the claimed inventions except for the specific rectangular cross-sectional shape.

Tsunemi discloses a surface mounting-type transformer comprising a magnetic core having an elongated rectangular cross-sectional shape, a planar flange on each end of the core, and a coil wound about the rectangular planar core. The planar rectangular shapes make it possible to attain a surface-mounting-type coil component having an extremely small height (column 5, lines 1-5) and aid in suitably mounting the component on an IC.

One skilled in the art, at the time the invention was made would have found it obvious to combine the teachings of Lindqvist and Tsunemi and form the core and flanges into rectangular cross-sectional shapes in order to suitably mount the component on an IC.

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4. Claims 2, 3, 6, 8, 9, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 6,075,430 to Lindqvist in view of U.S. Patent Number 6,392,523 to Tsunemi and further in view of U.S. Patent Number 6,512,175 to Gutierrez.

Regarding claims 2, 3, 6, 8, and 9, Lindqvist in view of Tsunemi discloses the claimed invention except for a mounting frame used to surround a core or cores; secure wire ends; and enables the core/cores to be surfaced mounted on an adjacent structure.

Gutierrez discloses electrical and electronic elements used in printed circuit board applications comprising an electronic packaging device comprising at least one core having a winding located within a non-conducting base member having; the base member having a plurality of lead channels and lead terminals formed therein. The wire leads of the winding are routed through the lead channels and connected to the lead terminals. A plurality of lead terminals, adapted to cooperate with the lead channels, are received within the lead channels, thereby forming an electrical connection between the lead terminals and the wire leads of the electronic component. (Abstract; figure 9; column 5, lines 6-8)

One skilled in the art, at the time the invention was made, would have found it obvious to combine the teachings of Lindqvist and Tsunemi with the teachings of Gutierrez and incorporate a base/mounting body with terminals about any core structure for the purposes of electrically connecting the windings and the device to a substrate such as a printed circuit board.

Lindqvist in view of Tsunemi further in view of Gutierrez disclose the claimed invention except for stating that the structure is constructed to enhance heat transfer. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987). Lindqvist in view of Gutierrez discloses the

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claimed structural limitations so it is understood that that structure would be capable of performing the function as claimed by applicant.

Claims 11 and 12 are the method counterpart to product claims 1, 2, and 7, and method steps are therefore inherent for manufacturing an inductive element have an elongated core or elongated cores as claimed by the inventor.

Response to Arguments

5. Applicant's arguments with respect to the amended claims have been considered but are moot in view of the new ground(s) of rejection.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A. Poker whose telephone number is 571-272-1997. The examiner can normally be reached on 4:30-3:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system,

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see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jap

April 29, 2005


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05/01/05